

FIG.1

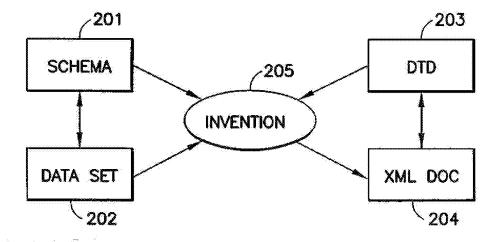


FIG.2

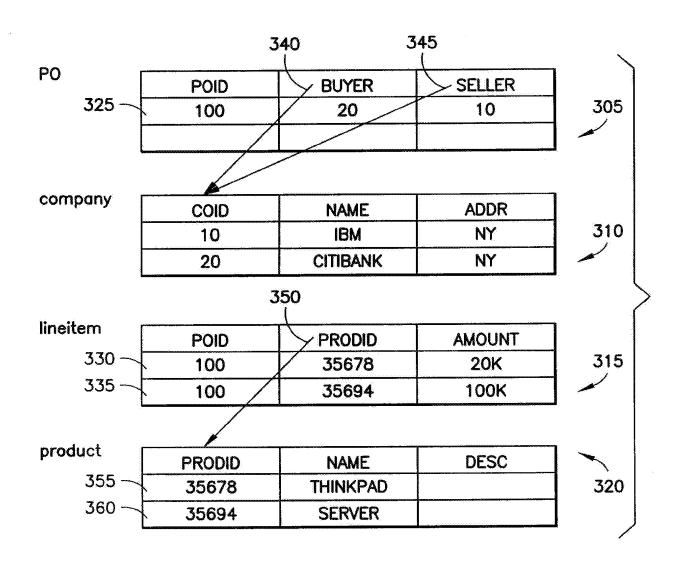


FIG.3a

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FIG.3b

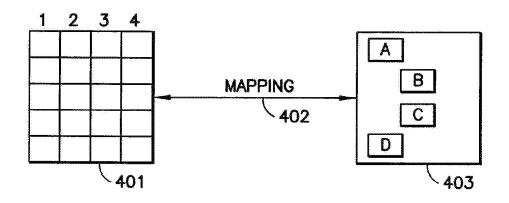


FIG.4

```
<!ELEMENT buyer (address)> ::s:= row(company, id PO.buyer(r)) -- 535
                                                                                                                                                                                                                                                                                           <!ELEMENT seller (address)> ::s:= row(company, id, PO.seller(r)) - 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amount)> ::v:= row(prod, prodid, lineitem.prodid(w))
                                                                                 (lineitem)*::w:= row(lineitem, poid, PO.poid(r)) >>
                                                                                                              <!ELEMENT prodmame (#PCDATA :product.prodname(v) )>
                                                                                                                                                                                                                                               name CDATA #REQUIRED :company.name(s)>
                                                                                                                                                                                                                                                                                                                                                           name CDATA #REQUIRED :company.name(s)>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <!ELEMENT amount (#PCDATA :lineitem.amount(w) )>
                                                                                                                                                                                                                                                                                                                                                                                                  <!ELEMENT address (#PCDATA :company.addr(s) >>
<!FI FMFNT lineitem (prodmame. 545</pre>
                                     <!ELEMENT PO (id, buyer, seller,
                                                                                                                                                                                                                                                                                                                                                                                                                                           <!ELEMENT lineitem (prodmame,
<IDOCTYPE PO [
                                                                                                                                                                                                                                     <!ATTLIST buyer</p>
                                                                                                                                                                                                                                                                                                                                      <!ATTLIST seller
```

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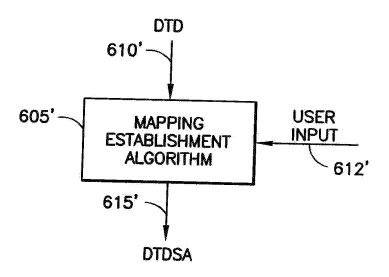


FIG.6a

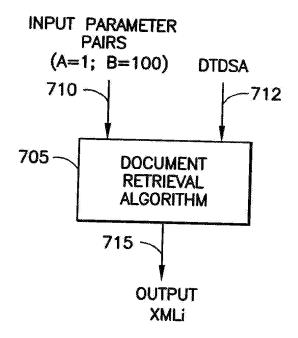


FIG.7a

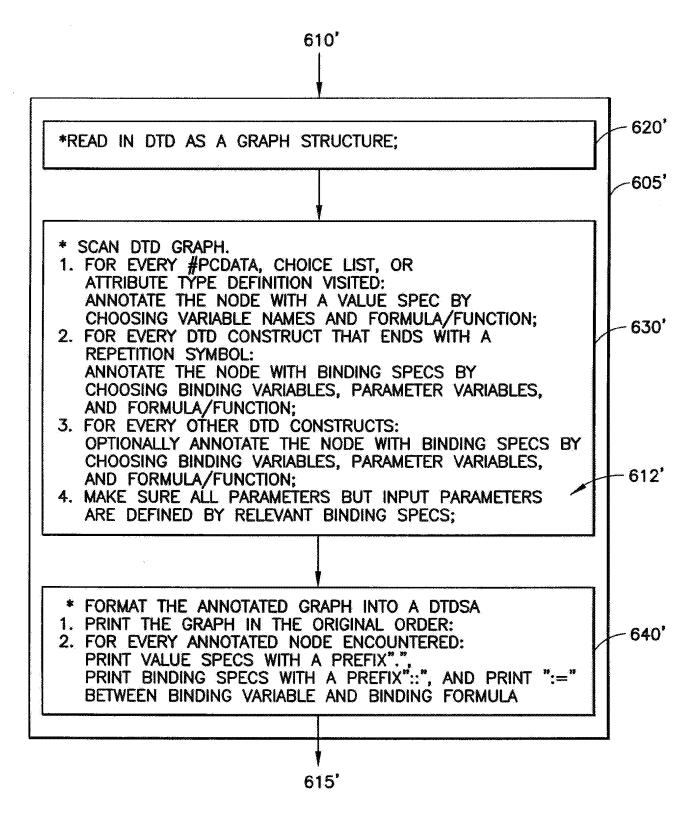
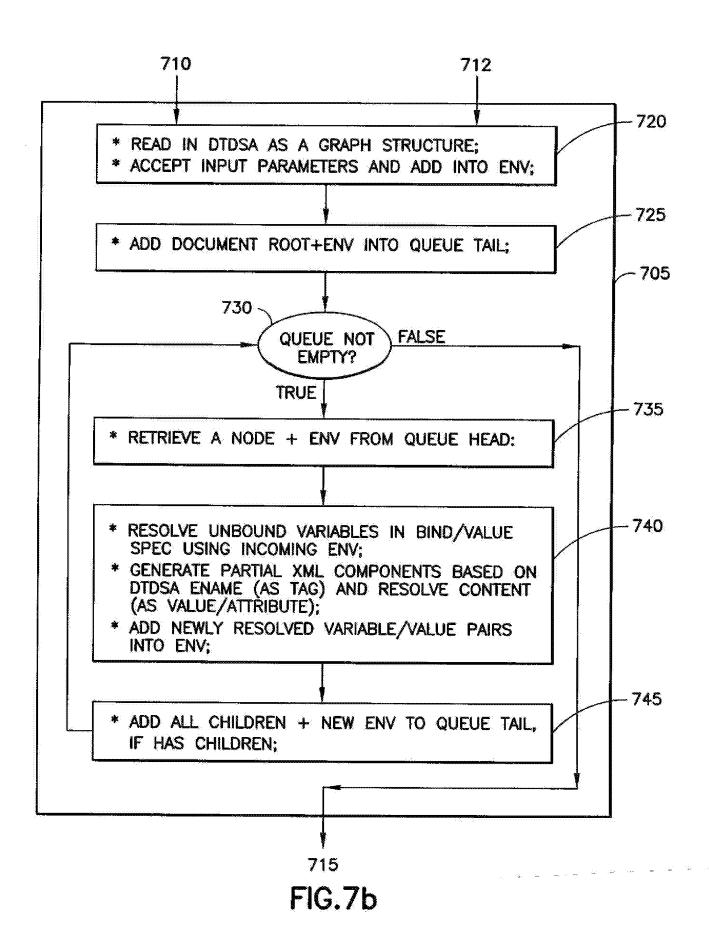
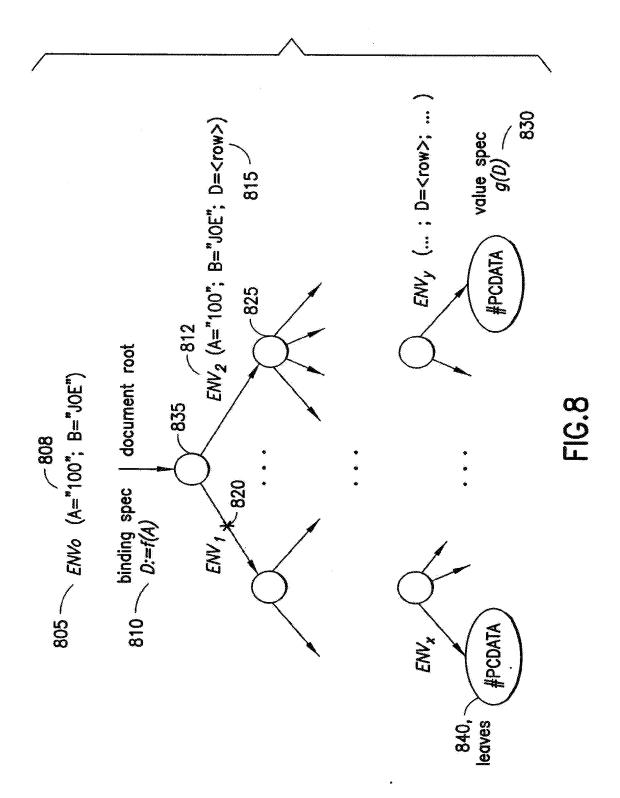


FIG.6b





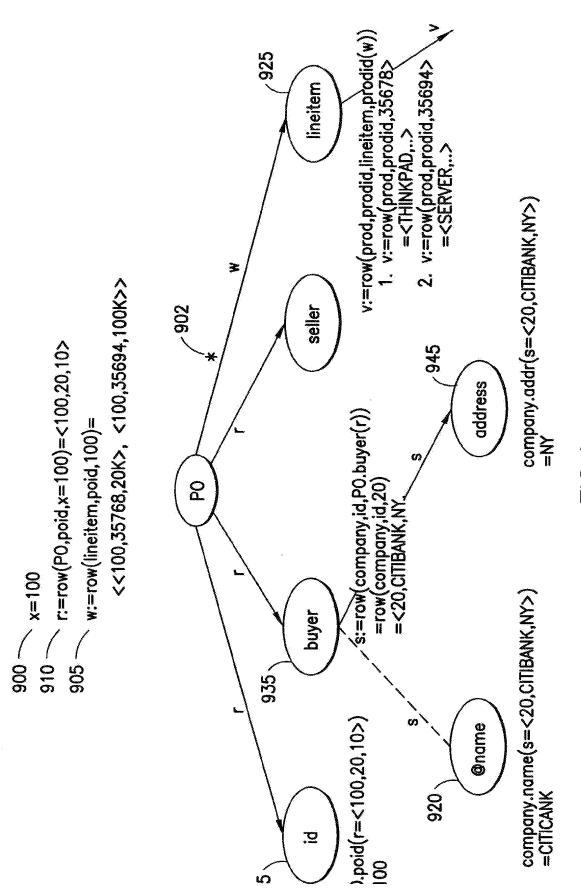


FIG.9

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```

```
<P0>
       <id> 100 </id>
       <buyer name="CITIBANK">
          <address> NY </address>
       </br></r></ri></ri></ri></ri></ri>
          <address> NY </address>
       </seller>
       lineitem>
  1010 -
          odname>
          <amount> 20K </amount>
1015 
          orodname>
          <amount> 100K </amount>
       </lineitem>
    </P0>
```

**FIG.10**